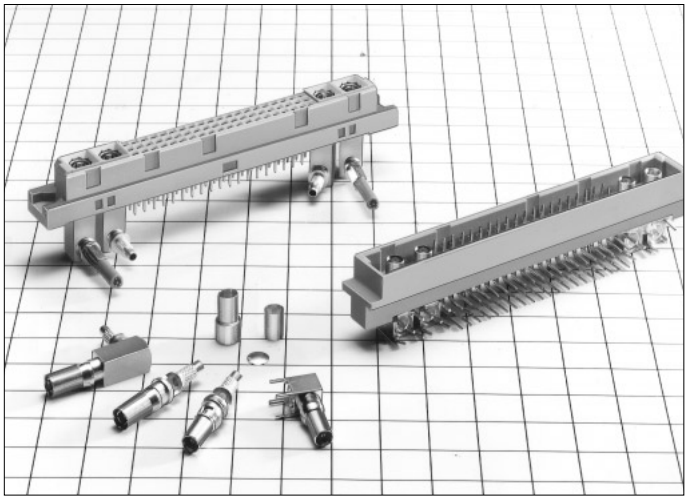
查询PCN10F-24P-2.54DS供应商

PCN10F Series (Product Compliant with DIN Standard: Coaxial and High Current Contact Composite Type)



■Features

1. Compliant with the DIN standard

The coaxial connector complies with DIN41612 standard.

2. Variation in number of contacts

Coaxial and high current contact insertion holes 2, 4, 6, and 8 contacts are available.

3. Reliable contact construction

PCN10F series is constructed with high reliable double-sided 2 point contacts.

4. Broad applications

The receptacle is provided with solder type and solderless connection type. The contact type is also provided with straight, right angle and wrapping types. The high current contact is provided with 10A and 20A types.

5. High Conformity

High frequency characteristics are 1 GHz and V.S.W.R1.2 maximum.

■Product Specifications

Rating	Current rating: 2A Voltage rating: 300V AC	Operating Temperature Range: -30 to +85℃ (Note 1) Operating Relative Humidity: 40 to 80%	Storage Temperature Range: -10 to +60℃ (Note 2) Operating Humidity Range: 40 to 70% (Note 2)

Item	Specification	Condition
1.Insulation Resistance	10^6M ohms	100V DC
2.Withstanding Voltage	No flashover or insulation breakdown.	1000V AC/1 minute.
3.Contact Resistance	20m ohms max.	0.1A
4.Vibration	No electrical discontinuity of 10μs or more	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions.
5.Humidity(Steady state)	Insulation resistance 10^6M ohms min.	96 hours at temperature of 40℃ and humidity of 90% to 95%
6.Temperature Cycle	No damage, cracks, or parts looseness.	(-65℃ : 30 minutes→15 to 35℃: 5 minutes max.→ 125℃ : 30 minutes→15 to 35℃: 5 minutes max.) 5 cycles
7.Durability (Mating/un-mating)	Contact resistance : 20m ohms max.	500 cycles
8.Resistance to Soldering heat	No deformation of components affecting performance.	Manual soldering: 300℃ for 3 seconds

Note 1: Includes temperature rise caused by current flow.
Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.

■Applications

Measurement instrument, control equipment, exchange, etc.

■Material

Parts		Material	Finish	Remarks
Insulator		PBT	Gray	UL94V-0
Contact	Pin header	Brass	Contact area: Gold plated Remainder: Tin-lead plated	———
	Receptacle	Copper alloy		

■Ordering Information

●Plug

PCN10F A – ＊ P – 2.54 DS
❶ ❷ ❸ ❹ ❺ ❻

❶ Series name : PCN10F	❹ P : Plug
❷ Blank : Board edge on mount type A : Board on mount type	❺ Contact pitch : 2.54mm
❸ Number of contacts : 24(8), 42(6), 60(4), 78(2) Values in parentheses indicates the number of coaxial connector and high current contact mounting holes.	❻ Contact type : DS : Right angle type

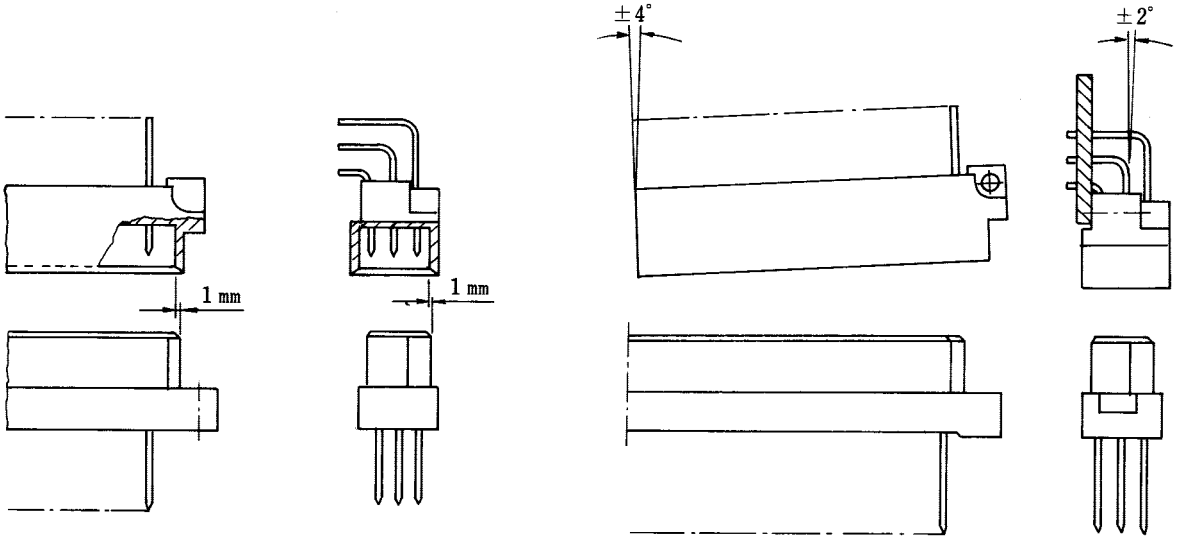
●Receptacle

PCN 10F A – ＊ S – 2.54 DSA
❶ ❷ ❸ ❹ ❺ ❻ ❼

❶ Series name : PCN	❹ Number of contacts : 24(8), 42(6), 60(4), 78(2) Values in parentheses indicates the number of coaxial connector and high current contact mounting holes.
❷ Series No. : 10F (Soldering type) 11F (Solderless connection type)	
❸ Contact type: Straight Blank : Coaxial cable connection type A : Coaxial connector through hole type Contact type: Right angle A : Board on mount type B : Board edge on mount type	❺ S : Receptacle ❻ Contact pitch : 2.54mm ❼ Contact type PCN10F DS : right angle type DSA : Straight type WA : Wrapping type (0.5tx0.7W) WB : Wrapping type (0.5tx0.5W) PCN11F PFB-2 : Short press fit type WB-2 : Wrapping press fit type

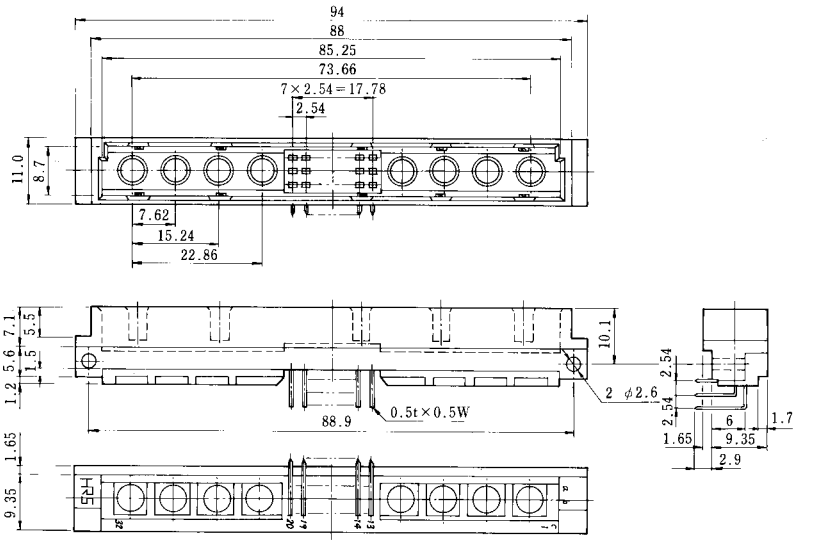
◆DIN Connector Mating Condition

Please be sure to utilize the DIN connector of Hirose within the range as shown below.

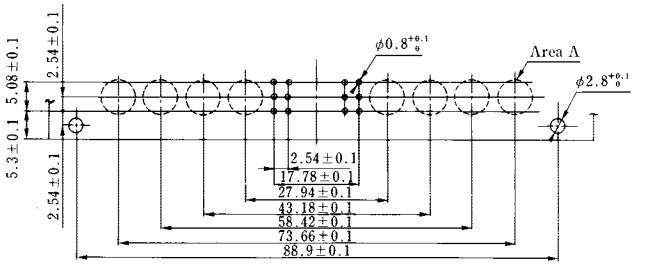


■Plug Right Angle Type
(Board edge on mount type)

PCN10F-24P-2.54DS
CL583-0341-0

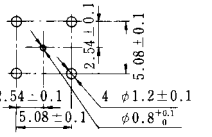


◆PCB mounting pattern

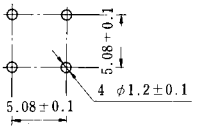


◆Area A dimensions

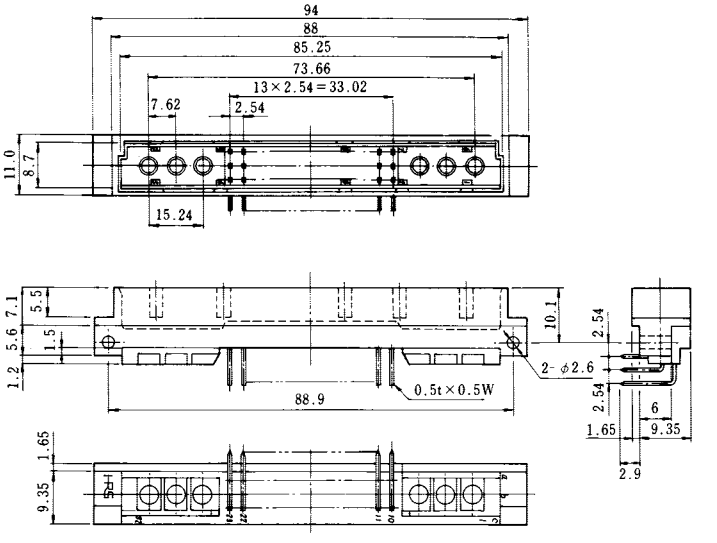
●Coaxial connector (PO51-LR-PC-1)



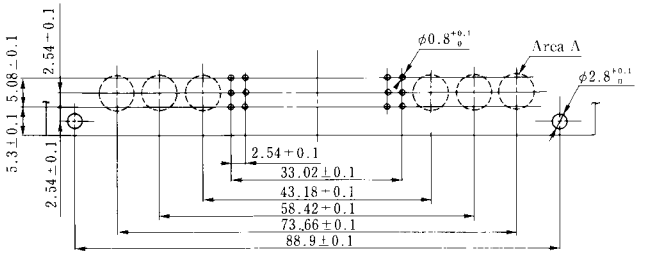
●High current contact
(Power contact PC, PCA)



PCN10F-42P-2.54DS
CL583-0145-1

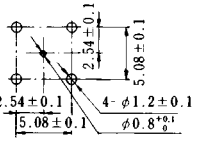


◆PCB mounting pattern

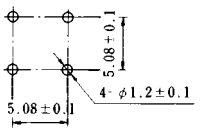


◆Area A dimensions

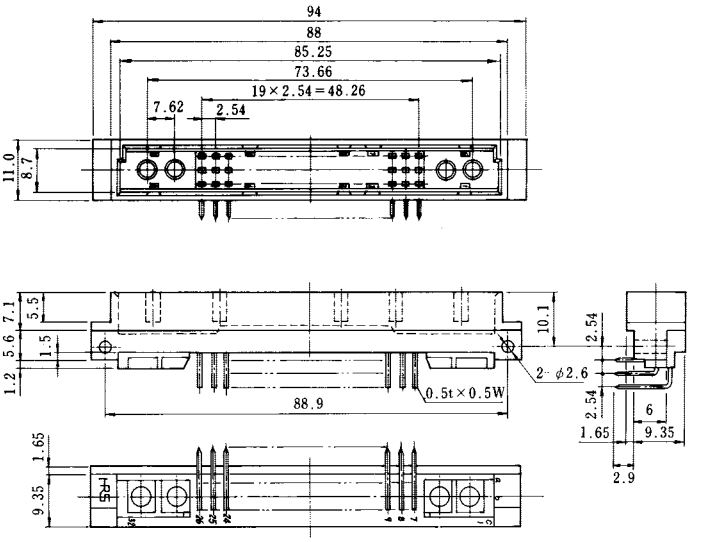
●Coaxial connector (PO51-LR-PC-1)



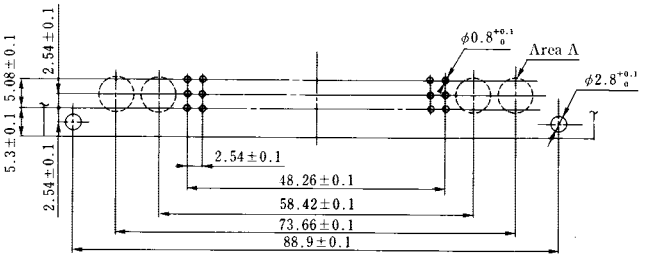
●High current contact
(Power contact PC, PCA)



PCN10F-60P-2.54DS
CL583-0303-0

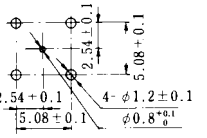


◆PCB mounting pattern

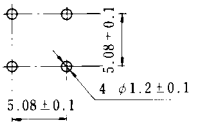


◆Area A dimensions

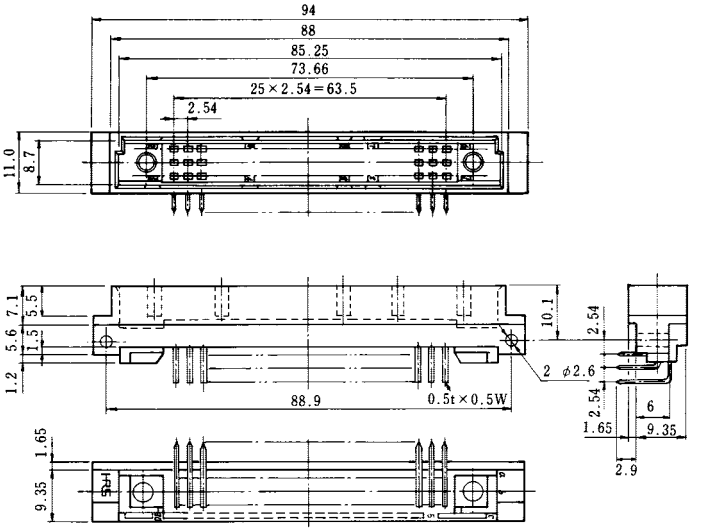
●Coaxial connector (PO51-LR-PC-1)



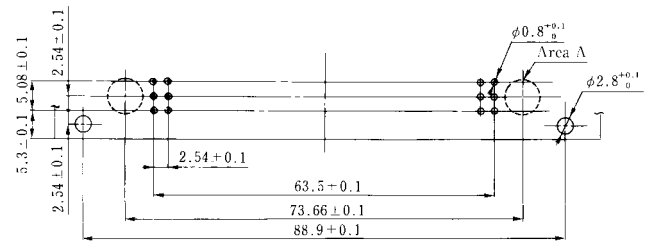
●High current contact
(Power contact PC, PCA)



PCN10F-78P-2.54DS
CL583-0321-2

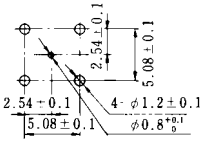


◆PCB mounting pattern

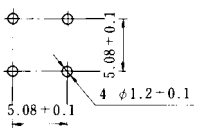


◆Area A dimensions

●Coaxial connector (PO51-LR-PC-1)

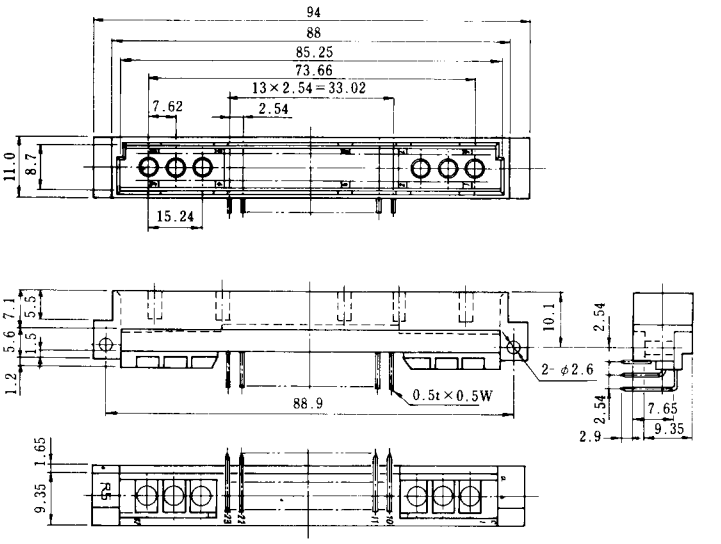


●High current contact
(Power contact PC, PCA)

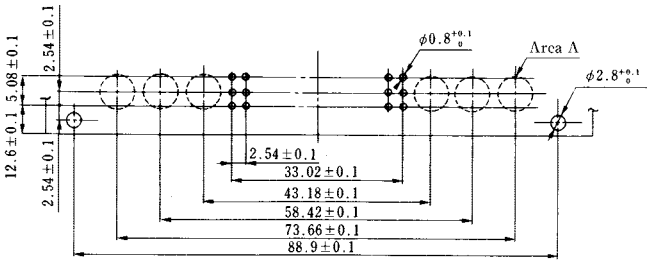


■Plug Right Angle Type (Board on mount type)

PCN10FA-42P-2.54DS
CL583-0148-0

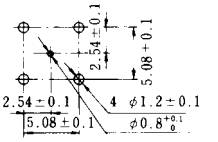


◆PCB mounting pattern

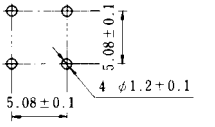


◆Area A dimensions

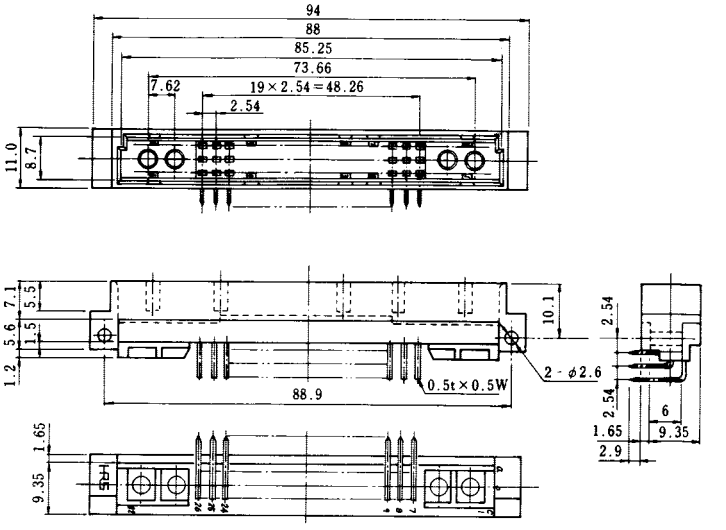
●Coaxial connector (PO51-LR-PC-A)



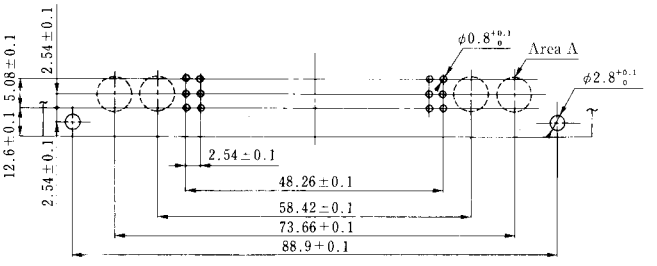
●High current contact (Power contact PC, PCA)



PCN10FA-60P-2.54DS
CL583-0304-3

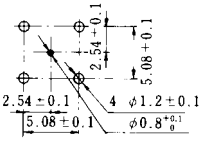


◆PCB mounting pattern

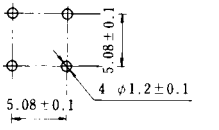


◆Area A dimensions

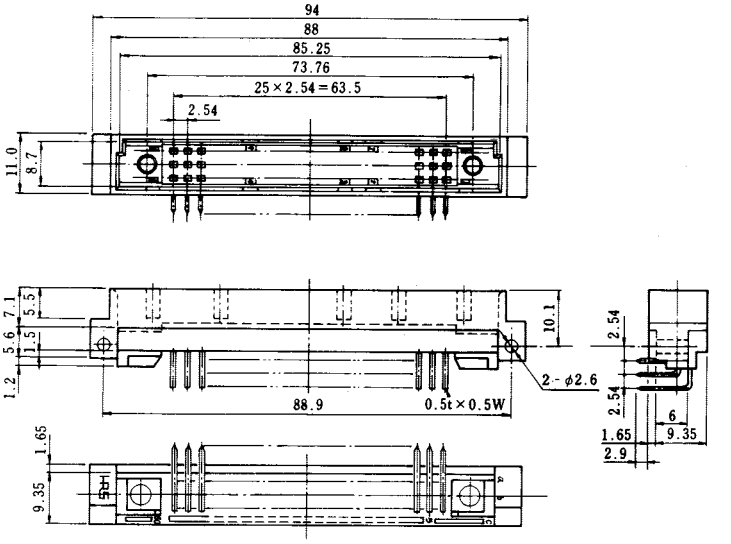
●Coaxial connector (PO51-LR-PC-A)



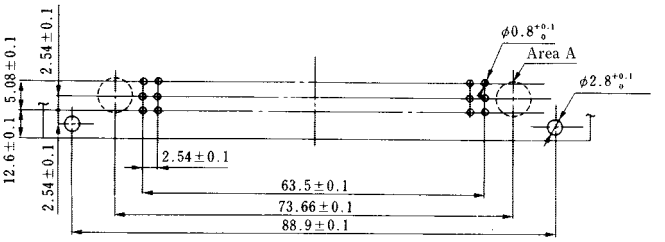
●High current contact (Power contact PC, PCA)



PCN10FA-78P-2.54DS
CL583-0322-5

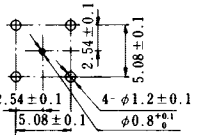


◆PCB mounting pattern

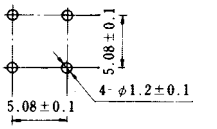


◆Area A dimensions

●Coaxial connector (PO51-LR-PC-1)

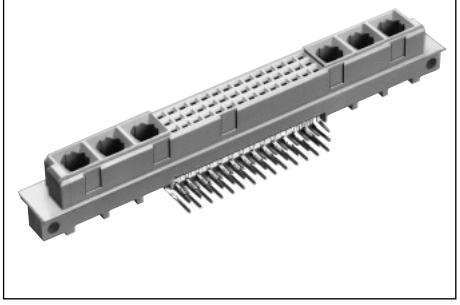


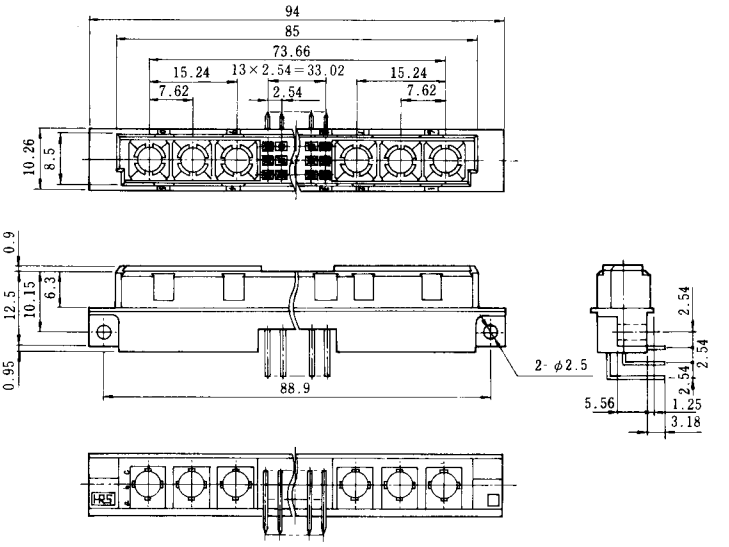
●High current contact
(Power contact PC, PCA)



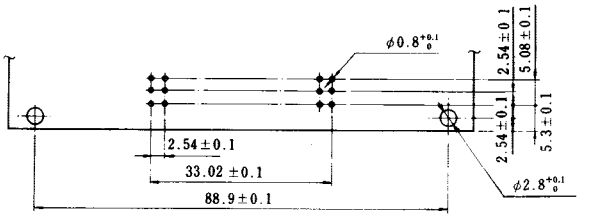
■Receptacle Right Angle Type (Board edge on mount type)

PCN10FB-42S-2.54DS
CL583-0334-4



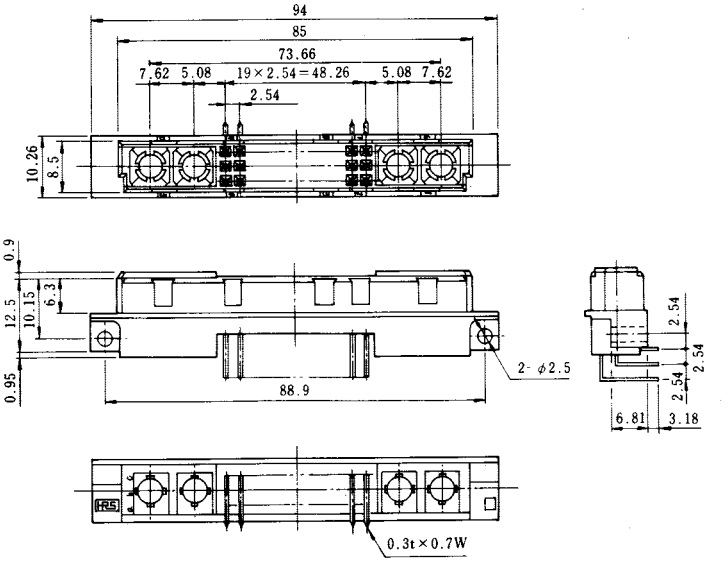


◆PCB mounting pattern

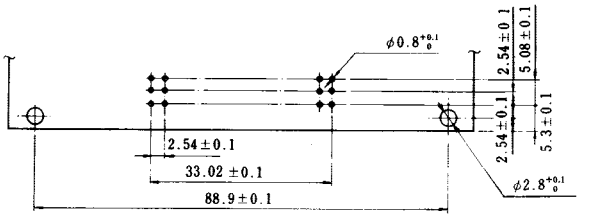


■Receptacle Right Angle Type (Board on mount type)

PCN10FA-60S-2.54DS
CL583-0337-2

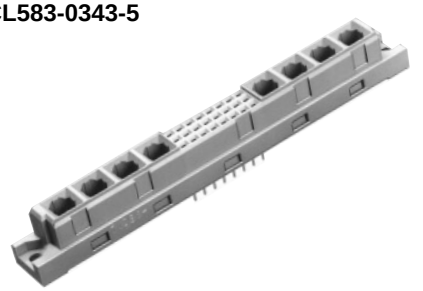


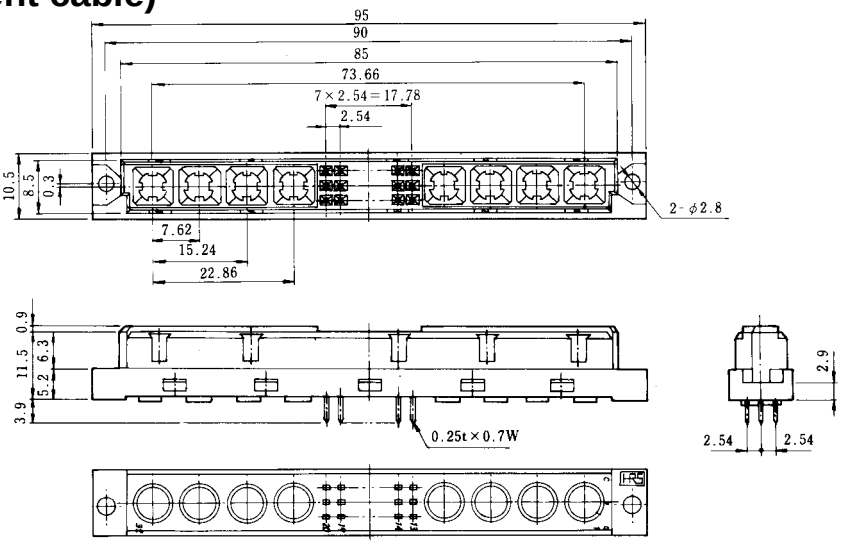
◆PCB mounting pattern



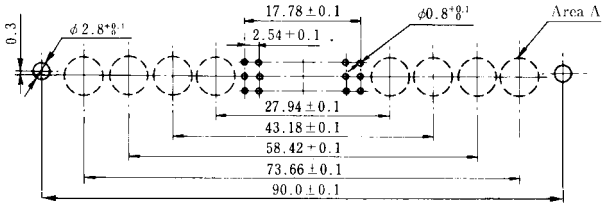
■ Receptacle Straight Type
(Coaxial connector/high current cable)

PCN10F-24S-2.54DSA
CL583-0343-5



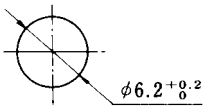


◆PCB mounting pattern

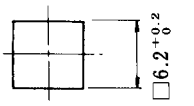


◆Area A dimensions

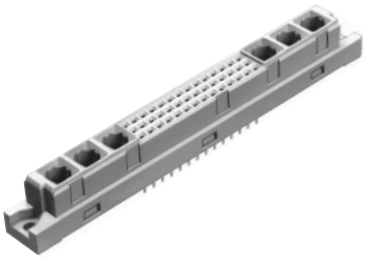
●Coaxial connector (PO51-P-1.5-1A)
High current contact
(Power contact 10S, 20S)

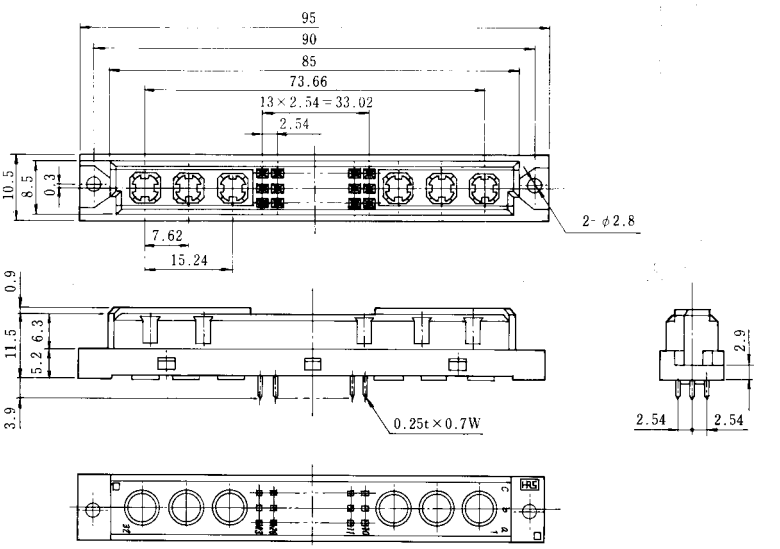


●Coaxial connector
(PO51-LP-1.5-A)

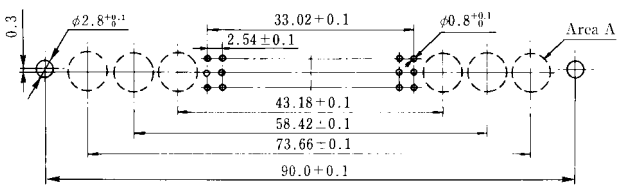


PCN10F-42S-2.54DSA
CL583-0142-3



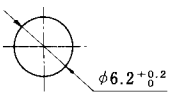


◆PCB mounting pattern

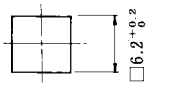


◆Area A dimensions

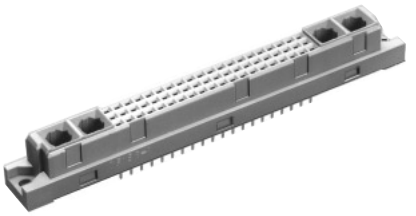
●Coaxial connector (PO51-P-1.5-1A)
High current contact
(Power contact 10S, 20S)

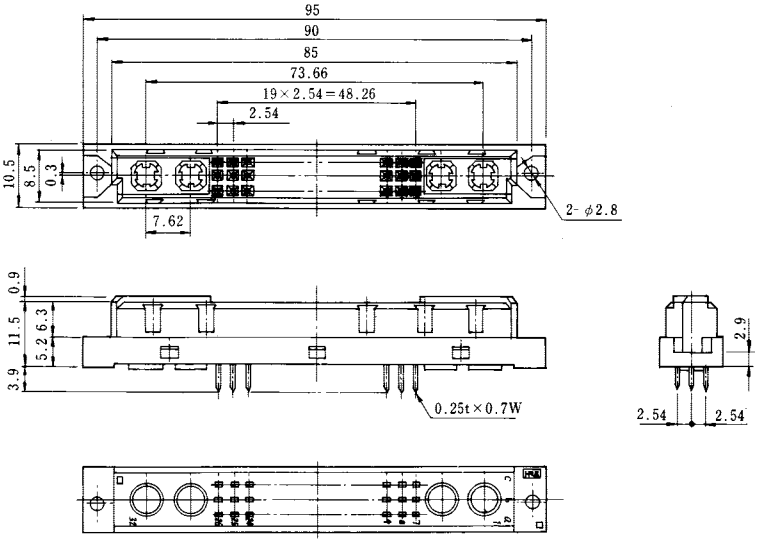


●Coaxial connector
(PO51-LP-1.5-A)

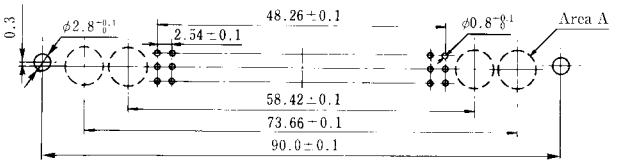


PCN10F-60S-2.54DSA
CL583-0305-6



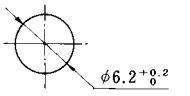


◆PCB mounting pattern

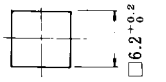


◆Area A dimensions

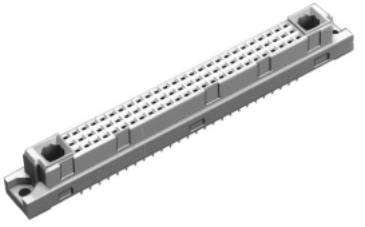
●Coaxial connector (PO51-P-1.5-1A)
High current contact
(Power contact 10S, 20S)

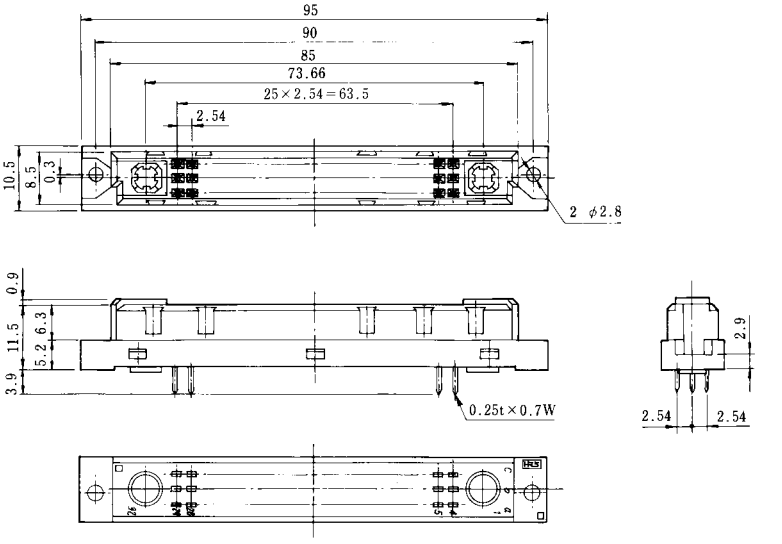


●Coaxial connector
(PO51-LP-1.5-A)

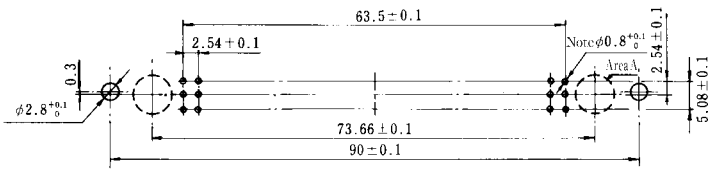


PCN10F-78S-2.54DSA
CL583-0323-8



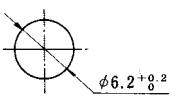


◆PCB mounting pattern

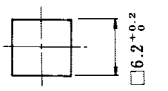


◆Area A dimensions

●Coaxial connector (PO51-P-1.5-1A)
High current contact
(Power contact 10S, 20S)

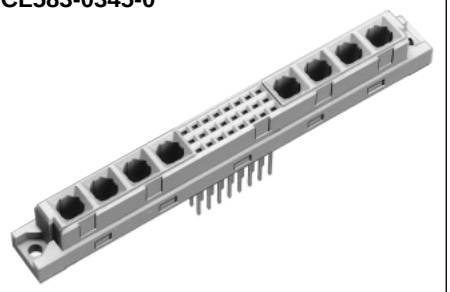


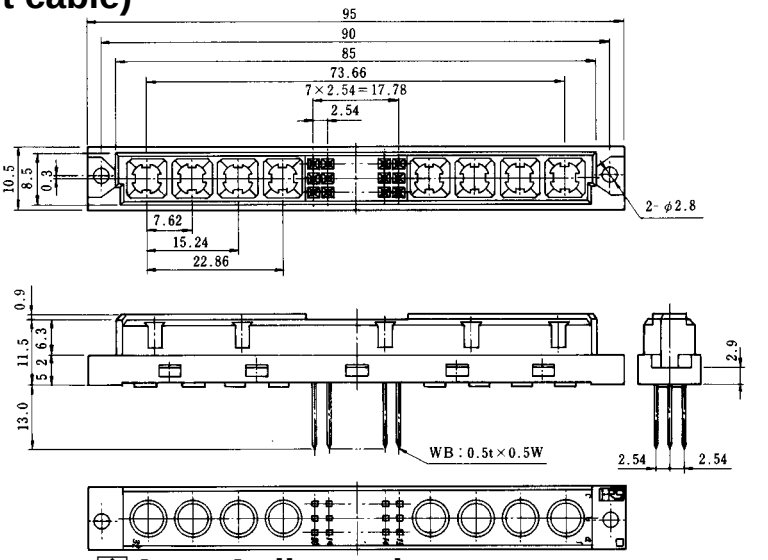
●Coaxial connector
(PO51-LP-1.5-A)



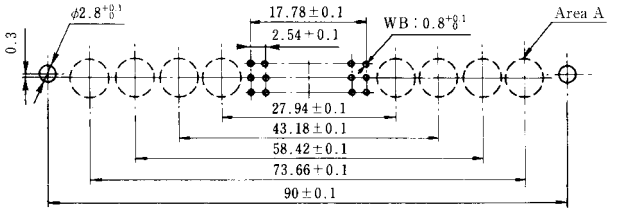
■ Receptacle Wrapping Type
(Coaxial connector/high current cable)

PCN10F-24S-2.54WB
CL583-0345-0



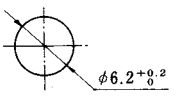


◆PCB mounting pattern

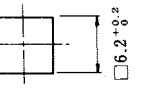


◆Area A dimensions

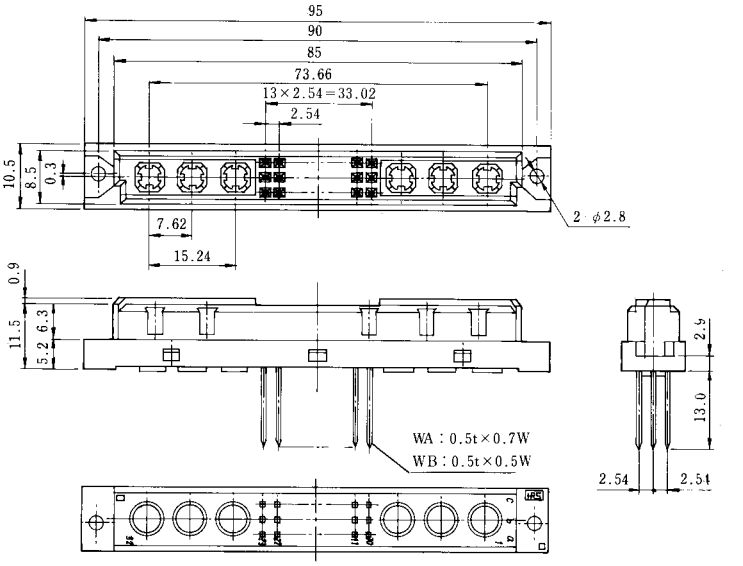
●Coaxial connector (PO51-P-1.5-1A)
High current contact
(Power contact 10S, 20S)



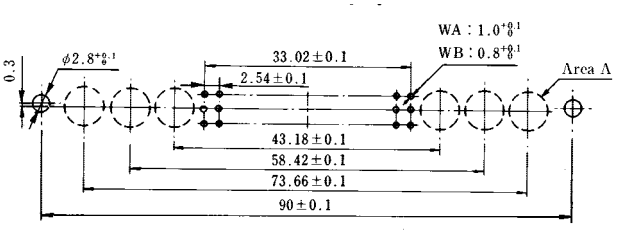
●Coaxial connector
(PO51-LP-1.5-A)



PCN10F-42S-2.54WA
CL583-0151-4
PCN10F-42S-2.54WB
CL583-0271-6

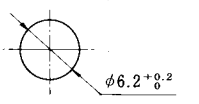


◆PCB mounting pattern

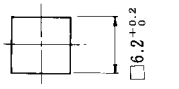


◆Area A dimensions

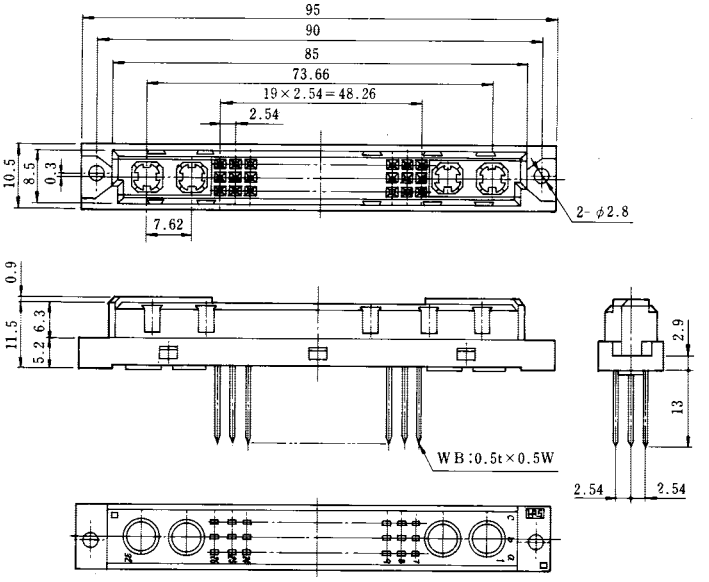
●Coaxial connector (PO51-P-1.5-1A)
High current contact
(Power contact 10S, 20S)



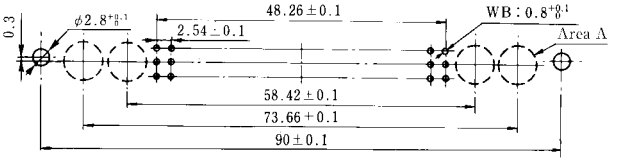
●Coaxial connector
(PO51-LP-1.5-A)



PCN10F-60S-2.54WB
CL583-0307-1

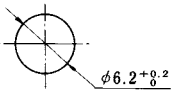


◆PCB mounting pattern

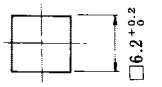


◆Area A dimensions

●Coaxial connector (PO51-P-1.5-1A)
High current contact
(Power contact 10S, 20S)

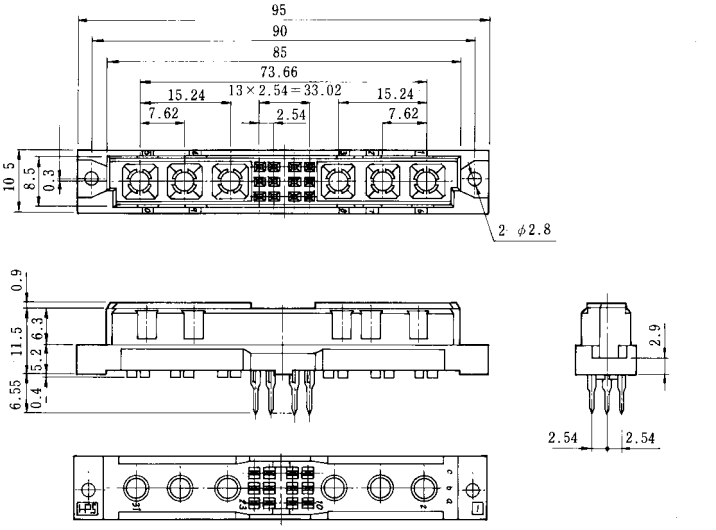


●Coaxial connector
(PO51-LP-1.5-A)

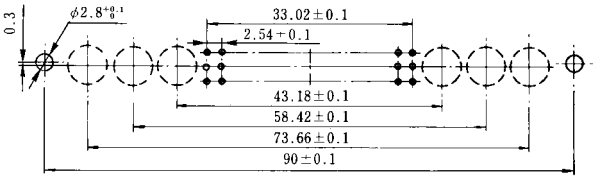


■ Receptacle Solderless Connection Type

PCN11F-42S-2.54PFB-2
CL583-1185-1



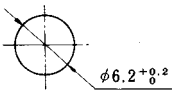
◆PCB mounting pattern



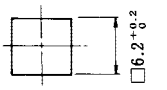
Applicable board: t=2.4mm
Through-hole finish diameter: φ0.9±0.08mm
(For details, refer to PCN11 series.)

◆Area A dimensions

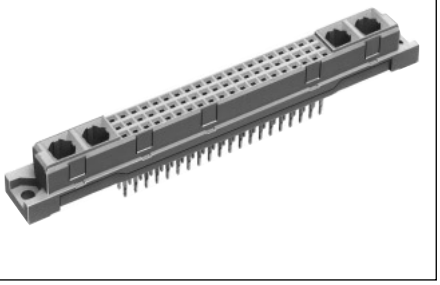
●Coaxial connector (PO51-P-1.5-1A)
High current contact
(Power contact 10S, 20S)

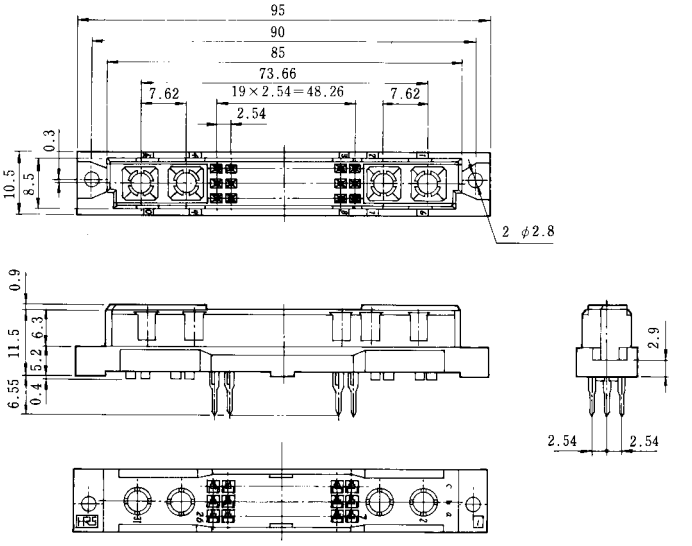


●Coaxial connector
(PO51-LP-1.5-A)

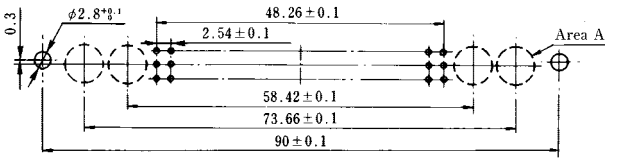


PCN11F-60S-2.54PFB-2
CL583-1187-7





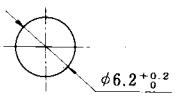
◆PCB mounting pattern



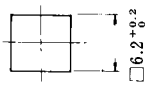
Applicable board: t=2.4mm
Through-hole finish diameter: φ0.9±0.08mm
(For details, refer to PCN11 series.)

◆Area A dimensions

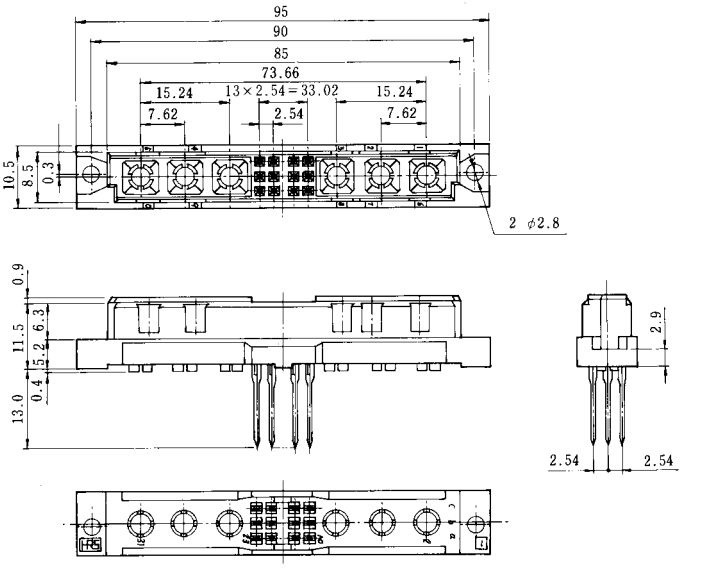
●Coaxial connector (PO51-P-1.5-1A)
High current contact
(Power contact 10S, 20S)



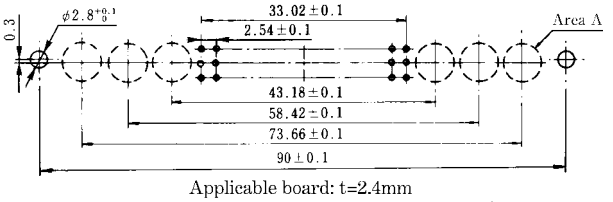
●Coaxial connector
(PO51-LP-1.5-A)



PCN11F-42S-2.54WB-2
CL583-1186-4



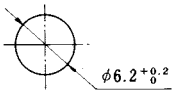
◆PCB mounting pattern



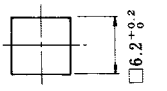
Applicable board: t=2.4mm
Through-hole finish diameter: φ0.9±0.08mm
(For details, refer to PCN11 series.)

◆Area A dimensions

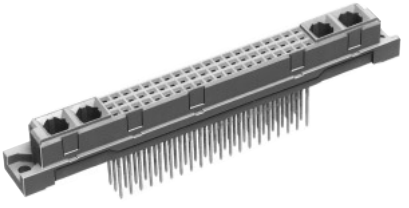
●Coaxial connector (PO51-P-1.5-1A)
High current contact
(Power contact 10S, 20S)

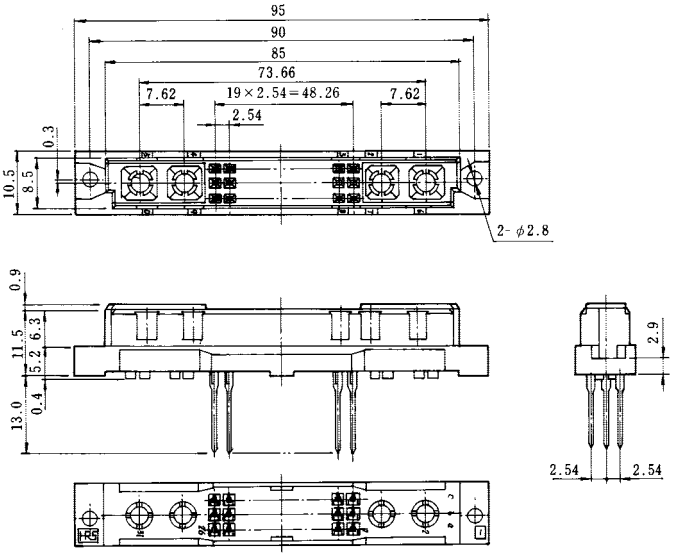


●Coaxial connector
(PO51-LP-1.5-A)

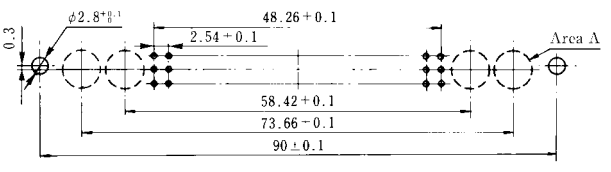


PCN11F-60S-2.54WB-2
CL583-1188-0





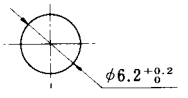
◆PCB mounting pattern



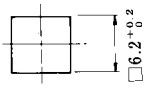
Applicable board: t=2.4mm
Through-hole finish diameter: φ0.9±0.08mm
(For details, refer to PCN11 series.)

◆Area A dimensions

●Coaxial connector (PO51-P-1.5-1A)
High current contact
(Power contact 10S, 20S)

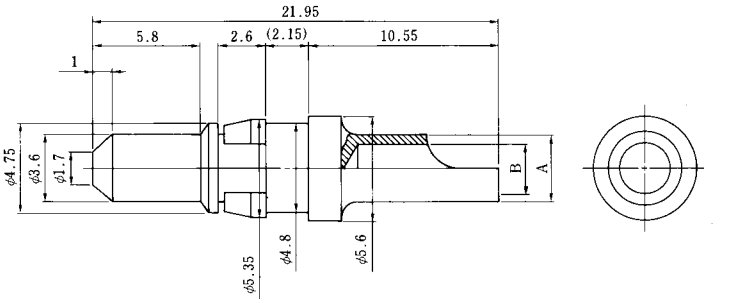


●Coaxial connector
(PO51-LP-1.5-A)

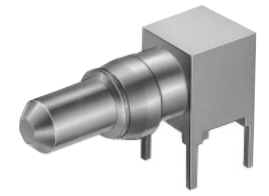


■ High Current Contact

Material: Brass
Finish: Gold plated

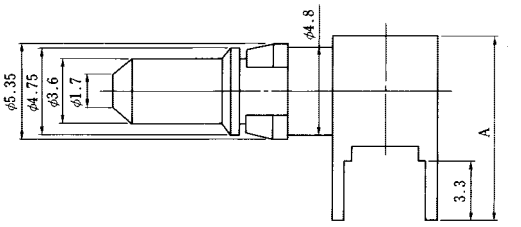


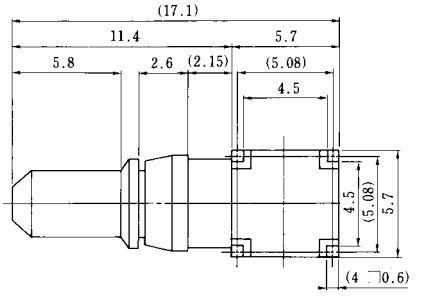
Part Number	CL No.	Operating Current	A	B
Power Contact -20P	583-0369-9	20A (70℃)	φ3.7	φ2.8
Power Contact -10P	583-0449-6	10A (85℃)	φ2.55	φ1.7



Material: Brass
Finish: Gold plated

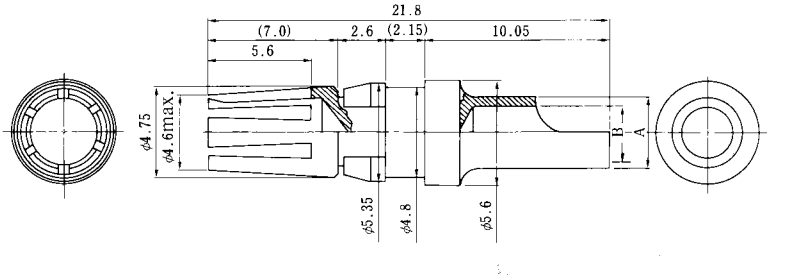
Note: Power contact -P is for PCN10F-∗P-2.54DS.
Power contact -PCA is for PCN10FA-∗P-2.54DS.





Part Number	CL No.	Operating Current	A
Power Contact -PC	583-0370-8	20A (70℃)	10.1
Power Contact -PCA	583-0371-0	10A (85℃)	11.75

Material: Copper alloy
Finish: Gold plated



Part Number	CL No.	Operating Current	A	B
Power Contact -20S	583-0374-9	20A (70℃)	φ3.7	φ2.8
Power Contact -10S	583-0450-5	10A (85℃)	φ2.55	φ1.7

■ Application

◉ : Mounting hole center
C.L. : Center line